

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T     S H E E T  
(pursuant to NAC 445A.236)

**Permittee Name:** Coyote Springs Reuse Water Company, LLC  
300 South 4<sup>th</sup> Street, #1406  
Las Vegas, Nevada 89101

**Permit Number:** NEV2007507

**Description of Discharge**

**Location:** Coyote Springs Reuse Facilities  
3100 State Route 168  
Coyote Springs, Nevada 89037

Clark County, Nevada

Latitude 36° 47' 57"N; Longitude 114° 55' 30"W.  
Sections 16, 20, 21, and 22, T. 13S., R. 63E., MDB&M

**General:** The Permittee has applied for an effluent reuse discharge permit for effluent irrigation on Coyote Springs= Golf Course #1 and Golf Course #2, common areas, parks and roadway streetscapes within the Coyote Springs development, in Clark County, Nevada. The reuse water will be supplied by the Coyote Springs Water Resources Water Reclamation Facility (CSWRWRF) ( permit #NEV2007501)for spray irrigation of turf grasses, and drip irrigation of trees and other plant materials on the various approved application sites of the Coyote Springs development. Effluent is also authorized for use in construction and dust control onsite. Two HDPE lined golf course pumping lakes (1A and 6A) are designed to supply reuse water for irrigation, and to provide effluent storage. Additional off site storage is available at the WRF in 2.6-acre and 6.5-acre ponds. These ponds are designed to provide treated effluent supplemented and blended with raw water and then pumped up and discharged into the irrigation pumping lakes 1A and 6A for distribution to the various irrigation sites. A third lined pond is proposed near the WRF, and is to be constructed when flows reach 1.25 MGD, and will be approximately 19 acres in size.

The treated wastewater to be supplied for reuse will meet 10 mg/l BOD and 10 mg/l TSS and less than 10 mg/l Total Nitrogen as N. The plant will supply tertiary treated effluent that is denitrified and disinfected to meet Category A effluent (NAC 445A.425) 2.2 MPN/CFU/100 ml Total coliform. All irrigation and storage of treated effluent will be operated in accordance with the terms and conditions of the permit and the Division approved Effluent Management Plan (EMP).

Other approved reuse sites/facilities may be added as minor modifications to the permit. The EMP for reuse has been approved for (Phase II) WRF flows of up to 2.1 MGD which may supply up to 5 golf course facilities. Golf course #1 has a turf grass acreage of 86 acres of a total of 230 acres with drip irrigated native plant materials on the course, the common areas, parks and streets of the remaining acreage. Golf course #2 and associated sites have a turf grass acreage of 205 acres, and 144 acres of drip irrigation on approved sites.

**Flow:** The Coyote Springs Golf Course #1 and approved reuse areas are limited to a quantity of 516 acre feet per year(0.461 MGD)and, Golf Course #2 and approved reuse sites are limited to a quantity of 595 acre feet per year(0.531 MGD). The build out of possibly up to five golf courses and ancillaries will have a 2.10 MGD flow limit for the discharge flow from the treatment plant. It is anticipated that following the next permit period, or later, in response to growth, a future expansion of the treatment facility (WRD) (Phase III), will have flows increased to a projected increase in flow to 4.20 MGD, subject to revised EMP plan approvals by NDEP. **Outfall 001 is for Golf Course #1 and 001a is for associated irrigation areas; Outfall 002 is for Golf Course #2 and 002a for associated irrigation areas. Outfall 003 is for construction and dust control waters.** Effluent water is blended with groundwater to meet irrigation demands in accordance with the EMP.

**Effluent Quality and Permit Requirements:**

**TABLE I.1**

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
<b>Total Flows:</b> <b>#1-001 Outfall</b> <b>#2-002 Outfall</b> <b>Outfall 001a</b> <b>Outfall 002a</b> <b>Outfall 003</b>	<b>0.461 MGD</b> <b>0.531 MGD</b> <b>M &amp; R</b> <b>M &amp; R</b> <b>M &amp; R</b>	<b>M &amp; R MGD</b> <b>M &amp; R MGD</b> <b>M &amp; R MGD</b> <b>M &amp; R MGD</b> <b>M &amp; R GPD</b>	<b>Continuous</b> <b>Continuous</b> <b>Continuous</b> <b>Continuous</b> <b>Daily</b>	<b>Flow Meter</b> <b>Flow Meter</b> <b>Flow Meter</b> <b>Flow Meter</b> <b>Calculate</b>
<b>Lake IA Total<sup>2</sup></b> <b>Lake 6A Total<sup>2</sup></b>	<b>Monitor &amp; Report MGM</b>	<b>Monitor &amp; Report MGD</b>	<b>Continuous</b> <b>Continuous</b>	<b>Flow Meter</b> <b>Flow Meter</b>
<b>Annual Application Volume<sup>3</sup> (AF)</b>	<b>Outfall 001,&amp; 001a- 516AC/FT/YR</b> <b>Outfall 002,&amp; 002a - 595 AC/FT/YR</b> <b>Total 1,111 AC/FT/YR</b>		<b>Annual</b> <b>Annual</b> <b>Annual</b>	<b>Calculate</b> <b>Calculate</b> <b>Calculate</b>

Fecal Coliform <sup>1</sup>	2.2 CFU (MPN)/100 ml	23 CFU (MPN)/100 ml	Weekly	Discrete
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CFU = Colony Forming Units; MPN = Most Probable Number; ml = Milliliter; MGD = Million Gallons per Day

#### FACT SHEET

Coyote Springs RWC, LLC

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MGM=Million Gallons per Month; M & R = Monitor and Report; AC/FT/YR = Acre feet per year

#### Footnotes:

1. Sample results to be obtained from NEV2007501
2. Monthly maximum based upon highest usage month determined from consumptive use balance + 10 % allowance and in accordance with the Effluent Management Plan, excluding construction and dust control waters.
3. Submit with 4th Quarter Report DMR.

Receiving Water Characteristics: The receiving water is the groundwater of the State of Nevada. Based on historic data, the groundwater ranges from 352 to 438 feet measured in three nearby wells, and is potable. Drinking water in this service area will be provided from a municipal supply with arsenic removal, and chlorinated to meet State Drinking Water regulation.

#### Procedures for Public Comment:

The notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwaters of the State of Nevada subject to the conditions contained within the permit, is being sent to the Las Vegas Review Journal for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the newspaper publication of the public notice by December 15, 2007. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of U.S. EPA Region IX or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing scheduled by the Administrator must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

### Proposed Determination

The Division has made the tentative determination to issue the proposed permit for a five (5) year period. The facilities are currently under construction under the terms and conditions of permit No. TNEV2007503.

Schedule of Compliance and Special Conditions

- a. The Permittee shall achieve compliance with the effluent limitations within three months of start up of operations, after issuance of the permit.
- b. The Permittee shall achieve compliance with the effluent flow monitoring requirements, the approved EMP and other conditions of this permit upon issuance of the permit.
- c. Prior to effluent reuse, the Permittee shall submit the cross-connection control documentation for the new sites required by part I.B.10. This documentation shall be submitted annually thereafter, due with the 4<sup>th</sup> Quarter Report. The cross-connection control inspections, including the annual shut down tests for the permitted sites shall be conducted by an AWWA Certified Cross-Connection Control Specialist in conjunction with the Southern Nevada Health District staff.
- d. Permittee shall notify NDEP within 14 days after initiating effluent reuse at each site. The Permittee shall not use effluent prior to having an approved EMP per NAC 445A.275.
- e. Future revisions to the approved Effluent Management Plan (EMP) shall be prepared by a qualified professional and submitted to the Division Compliance Coordinator at 901 South Stewart Street, Suite 4001, Carson City, Nevada, 89701. The Permittee shall not use effluent prior to having an approved EMP per NAC 445A.275.

Rationale for Permit Requirements:

Monitoring is required to assess the quantity of effluent applied, and to confirm the disinfection level meets permit requirements for the effluent delivered from the WRF facility, and to ensure that groundwaters of the State are not degraded.

Prepared by: Icyl C. Mulligan  
July 2007  
August 2007 revised  
November 2007 revised